

## **General Disclaimer**

### **One or more of the Following Statements may affect this Document**

- This document has been reproduced from the best copy furnished by the organizational source. It is being released in the interest of making available as much information as possible.
- This document may contain data, which exceeds the sheet parameters. It was furnished in this condition by the organizational source and is the best copy available.
- This document may contain tone-on-tone or color graphs, charts and/or pictures, which have been reproduced in black and white.
- This document is paginated as submitted by the original source.
- Portions of this document are not fully legible due to the historical nature of some of the material. However, it is the best reproduction available from the original submission.

CalESCO

CALIFORNIA EARTH SCIENCE CORPORATION

1315 10TH STREET, SUITE 27 SANTA MONICA, CALIFORNIA 90401 TELEPHONE 395-4528 AREA CODE 213

September 8, 1975

Made available under NASA sponsorship  
in the interest of early and wide dis-  
semination of Earth Resources Survey  
Program information and without liability  
for any use made thereof.

Contract NAS 2-7698  
MONTHLY PROGRESS REPORT NO. 27  
September 1975

Fault Tectonics and Earthquake Hazards in the Peninsular Ranges,  
Southern California, EREP Investigation 463

NASA-Lyndon B. Johnson Space Center  
Technical Support Procurement Branch  
Houston, Texas 77058

Attention: Mrs. Ruth Elder, Mail Stop BE631 (B9)

Dear Mrs. Elder:

California Earth Science Corporation (CalESCO) is pleased to submit its 27th  
Monthly Progress Report on the application of Skylab imagery to analysis of  
fault tectonics and earthquake hazards in the Peninsular Ranges, Southern  
California under NASA Contract No. NAS 2-7698.

#### Summary Outlook

The principal plans for the immediate future are to prepare the final reports  
on our analysis of Skylab data, and to prepare and analyze S192 images. Field  
studies of the area covered by the S192 images will be accomplished when the  
technical reports in preparation are completed.

#### Significant Progress

1. Work was continued on a technical report describing our analysis of the  
enhancement characteristics of pseudocolor transformations.
2. A talk entitled "Newly Detected Faults within the Peninsular Ranges of  
Southern California by Use of Spacecraft Imagery" was presented at the  
Southern California Section Meeting of the Association of Engineering  
Geologists.
3. Ratio images of all usable S192 channels of the Mojave test area were  
generated.
4. A paper describing work in the Peninsular Ranges entitled "Faulting in  
Basement Terrane, San Diego County" was submitted to the San Diego  
Association of Geologists Guidebook to be published in October 1975.

N75-23466

Unclas  
00411

CSCL 08F 63/43

(575-10411) FAULT TECTONICS AND EARTHQUAKE  
HAZARDS IN THE PENINSULAR RANGES, SOUTHERN  
CALIFORNIA Monthly Progress Report, Sep.  
1975 (California Earth Science Corp., Santa  
Monica.) 2 p HC \$3.25

September 8, 1975

Expected Accomplishments, Current Month

1. Work will continue on a technical report describing our analysis of the enhancement characteristics of pseudocolor transformations.
2. Ratio images of S192 channels of the Mojave test area will be analyzed.

Travel Summary and Plans

No travel is planned during September.

Very truly yours,

CALIFORNIA EARTH SCIENCE CORP.

*Paul Merifield*  
Paul Merifield  
Principal Investigator

cc: NASA Scientific and Technical  
Information Facility  
Attention: Earth Resources  
P.O. Box 33  
College Park, Maryland 20740

NASA-Lyndon B. Johnson Space Center  
Earth Observations Division  
Attn: Dr. David Amsbury, Mail Code TF6  
Houston, TX 77058

NASA-Lyndon B. Johnson Space Center  
Earth Resources Program Office  
Attn: Robert K. Stewart, Mail Code HD  
Houston, TX 77058